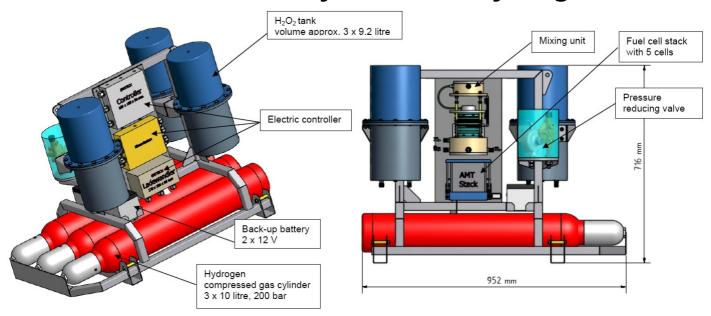
Underwater Fuel Cell System with Hydrogen/H₂O₂



Prototype Characteristics of the Underwater Fuel Cell System with Hydrogen/Hydrogen Peroxide

AMT 5 cell stack (active area: 132,5 cm ²)
2.54.5 V
1 3 W
2 x 12 V, YUASA, serial connection 24 V, 12 Ah
22 V
27 V
19 V (cutting of external load from the battery)
7 10 W
50 300 mbar
Approximately 952 x 600 x 716 mm
Approximately 128 kg
Approximately 87 litre
259 Wh/l





This prototype of an underwater fuel cell system was tested for 8 weeks in the Baltic Sea near the German coast in order to demonstrate the working principle as a first step. For this purpose a small system was selected with low output power and small fuel and oxidant amounts. At the moment there are some further improvements in development like more cells, the extension of the electrode surface and other fuels.















